



Case study Education

Architect: RMJM

Contractor: BAM Construction

Products Specified: SikaTack® Panel Adhesive

“This was a new system to us, which was specified by the architect. Although we hadn’t used it before, we were very impressed by its ease of installation and would welcome using this system again.”

**James Preston, Construction Director
at Pace Installations**

Joint Sealing & Elastic Bonding

A revolutionary adhesive system that enables cladding panels to be seamlessly fixed to buildings, without the need for unsightly mechanical fixings, has been specified for a state of the art new sports hall at Buckingham New University, forming part of a massive £200 million campus redevelopment.

SikaTack® Panel Adhesive, developed by global building product manufacturer Sika®, was specified by project architects RMJM as a proven way of securely and invisibly attaching the Trespa cladding to the outside of the sports hall. This has enabled the creation of a clean and uninterrupted façade.

The project forms the first phase of a 10-year development plan at the University in High Wycombe. Completed in time for the new term, the complex known as ‘The Gateway’, includes a gym, sports laboratory and treatment rooms as well as a main sports hall.

Working for main contractor, St Albans based BAM Construction, Pace Installations completed the cladding work using the SikaTack® Panel Adhesive to efficiently fix the cladding panels to the structure.

A primary fixing method, the system eliminates the need for additional fixings and has been engineered to be applied on site. Having undergone rigorous testing, which has been monitored and endorsed by CWCT, SikaTack® Panel Adhesive has a proven track record and is supported with impressive wind loading and dead weight statistics.

As part of Sika® ongoing research and development the company works with structural engineers to undertake adhesion testing on any new cladding materials to ensure suitability. In addition, the company provides installation training and support to contractors as part of a complete solution.

Needing no screws or brackets, SikaTack® Panel Adhesive provided an easy method of applying the panels. The panels were first prepped using a specialised cleaner and then both the cladding support system and the cladding are primed.

A special 3mm thick black double-sided adhesive tape was then applied to the support system to provide temporary support. This enables the panels to be correctly positioned as once the SikaTack® Panel Adhesive is applied the panels are firmly stuck in place and cannot be moved. Once the panel is in position, the adhesive was applied and the cladding panels were then fixed into place.

Sika® elastic bonding technology means there is no need for extensive metal fixings. This helps save on project costs as time on site is reduced due to the minimal preparation and installation time needed compared to that required for more traditional fixings.

Full testing has been carried out on the SikaTack® Panel Adhesive system, which has proven to last without any reduction in performance. It has BBA accreditation ensuring peace of mind to both specifiers and contractors alike.



SikaTack® Panel Structural Fixing System

For the secret fixing of Rainscreen Cladding Systems

System Description

The SikaTack® Panel System is an adhesive system for the economic, concealed fixing of ventilated façade panels. The system consists of the elastic adhesive SikaTack® Panel, the double sided SikaTack® Panel fixing tape and pre-treatment products. With the SikaTack® Panel System, façade panels are invisibly attached to their normal substructures, without any additional mechanical fixings.

Uses

Concealed bonded fixing of ventilated façade panels for:

- Residential and commercial buildings
- New build and renovation projects
- Interior finishing works

Suitability

Deemed suitable for the fixing of Rainscreen panelling made from:

- Composite, Ceramic, High Pressure Laminates, High Pressure Cements, Natural Stone

Characteristics /Advantages

- 1-part products, ready to use
- Economical for rapid fixing
- Uniform tension over the whole façade panel (no stress points)
- Resistant to weathering and ageing
- Vibration and movement absorbing fixing system
- Provides creative opportunities for façade design
- Good looking, easy to maintain façade surface
- Silicone free

Tests/Approval / Standards

BBA Certificate 05/4218. Approval from “Deutsches Institut für Bautechnik” Berlin, Reg. No.: Z-10.8-408.

Quality Assurance

As part of ISO 9001/EN29001, the quality of the SikaTack® Panel Adhesive System is constantly checked and monitored. Adhesion and durability testing maybe carried out upon request for varying types of cladding materials.

Further Information

Sika Construction has a comprehensive range of Elastic Bonding systems to meet the requirements of virtually any structure and application. These solutions are backed up by a highly experienced technical team, who offer expert specification advice and support. For Project specific technical advice is available please contact our technical department on 0800 1123863 or alternatively email: technical@uk.sika.com



Sika Limited, Watchmead, Welwyn Garden City, Hertfordshire, AL7 1BQ
Tel: 01707 394444 Fax: 01707 329129 Email: info@sika.co.uk www.sika.co.uk





Case study Education

Architect: Aedas Architects

Main Contractor: Balfour Beatty

Specialist Contractor: Speedwell Roofing & Cladding

Products Specified: SikaTack® Panel Adhesive

Joint Sealing & Elastic Bonding

SikaTack Panel Adhesive, a revolutionary cladding adhesive system that eliminates unsightly mechanical fixing system from spoiling the building envelope, has provided the ideal solution for the cladding of Huyton Arts and Sports Centre for Learning.

Part of the £150million Knowsley Schools BSF (Building Schools for the Future) programme, Huyton Arts and Sports Centre for Learning is one of seven schemes being delivered to create new facilities in the region. Each scheme has been individually designed but they all share the same principles of integrated architecture, structure and environment.

With such a focus on design, it was of paramount importance that nothing spoil the clean lines of the cladding. SikaTack Panel Adhesive from leading building product manufacturer Sika, provided the solution.

A high performance adhesive system, it allows cladding panels to be bonded to a structure rather than being mechanically fixed. This overcomes the problem of mechanical fixtures protruding from the cladding, interrupting the appearance.

Designed by Aedas architects and built by Balfour Beatty for Knowsley Metropolitan Borough Council, Huyton Arts and Sports Centre for Learning features a Gebrik Insulating Brick Cladding System to a level of four metres with Petrarch cladding panels from CEP Claddings covering the remainder of the building. The Petrarch panels combine the aesthetic appeal of slate or natural stone with the design flexibility afforded by a lightweight, large panel format.

Specialist contractor Speedwell Roofing and Cladding used the SikaTack Panel Adhesive to bond the panels to the structure. Using elastic bonding technology, the system requires no screws or brackets. Instead, panels are temporarily held in place using a special 3mm thick double-sided tape and the SikaTack Panel Adhesive firmly bonds the panel to the carrier frame, keeping each panel secure for decades to come.

SikaTack Panel Adhesive was also used on the nearby Halewood Centre for Learning, another project forming part of the Knowsley Schools BSF scheme.

Certified by the British Board of Agrément and accredited by the highest standard of quality assurance, ISO 9001/EN29001, SikaTack Panel was the certified choice. The product has also been tested to extreme conditions and has been proven to last without any reduction in performance.

Front Cover: Huyton Arts and Sports Centre
Back Top: Halewood Centre for Learning
Back Bottom: Huyton Arts and Sports Centre



SikaTack® Panel Structural Fixing System

For the secret fixing of Rainscreen Cladding Systems

System Description

The SikaTack® Panel System is an adhesive system for the economic, concealed fixing of ventilated façade panels. The system consists of the elastic adhesive SikaTack® Panel, the double sided SikaTack® Panel fixing tape and pre-treatment products. With the SikaTack® Panel System, façade panels are invisibly attached to their normal substructures, without any additional mechanical fixings.

Uses

Concealed bonded fixing of ventilated façade panels for:

- Residential and commercial buildings
- New build and renovation projects
- Interior finishing works

Suitability

Deemed suitable for the fixing of Rainscreen panelling made from:

- Composite, Ceramic, High Pressure Laminates, High Pressure Cements, Natural Stone

Characteristics /Advantages

- 1-part products, ready to use
- Economical for rapid fixing
- Uniform tension over the whole façade panel (no stress points)
- Resistant to weathering and ageing

- Vibration and movement absorbing fixing system
- Provides creative opportunities for façade design
- Good looking, easy to maintain façade surface
- Silicone free

Tests/Approval / Standards

BBA Certificate 05/4218. Approval from "Deutsches Institut für Bautechnik" Berlin, Reg. No.: Z-10.8-408.

Quality Assurance

As part of ISO 9001/EN29001, the quality of the SikaTack® Panel Adhesive System is constantly checked and monitored. Adhesion and durability testing maybe carried out upon request for varying types of cladding materials.

Further Information

Sika Construction has a comprehensive range of Elastic Bonding systems to meet the requirements of virtually any structure and application. These solutions are backed up by a highly experienced technical team, who offer expert specification advice and support. For Project specific technical advice is available please contact our technical department on 0800 1123863 or alternatively email: technical@uk.sika.com



Sika Limited, Watchmead, Welwyn Garden City, Hertfordshire, AL7 1BQ
Tel: 01707 394444 Fax: 01707 329129 Email: info@sika.co.uk www.sika.co.uk

